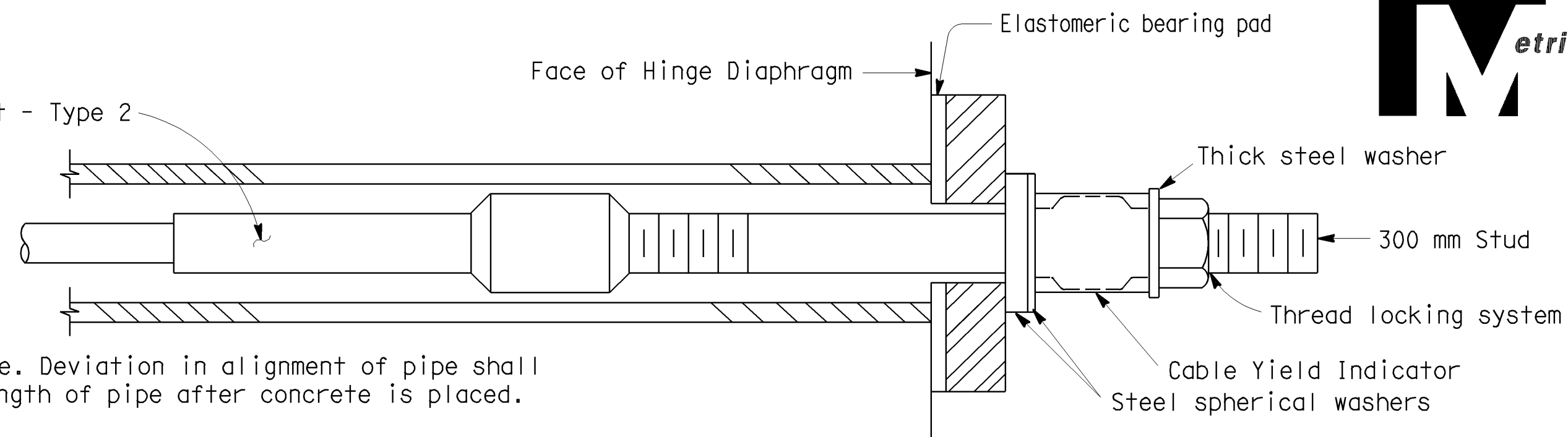


BENT SIDE

(Retrofit construction shown)



HINGE SIDE

(Retrofit construction shown)

DISC SPRINGS AND WASHERS

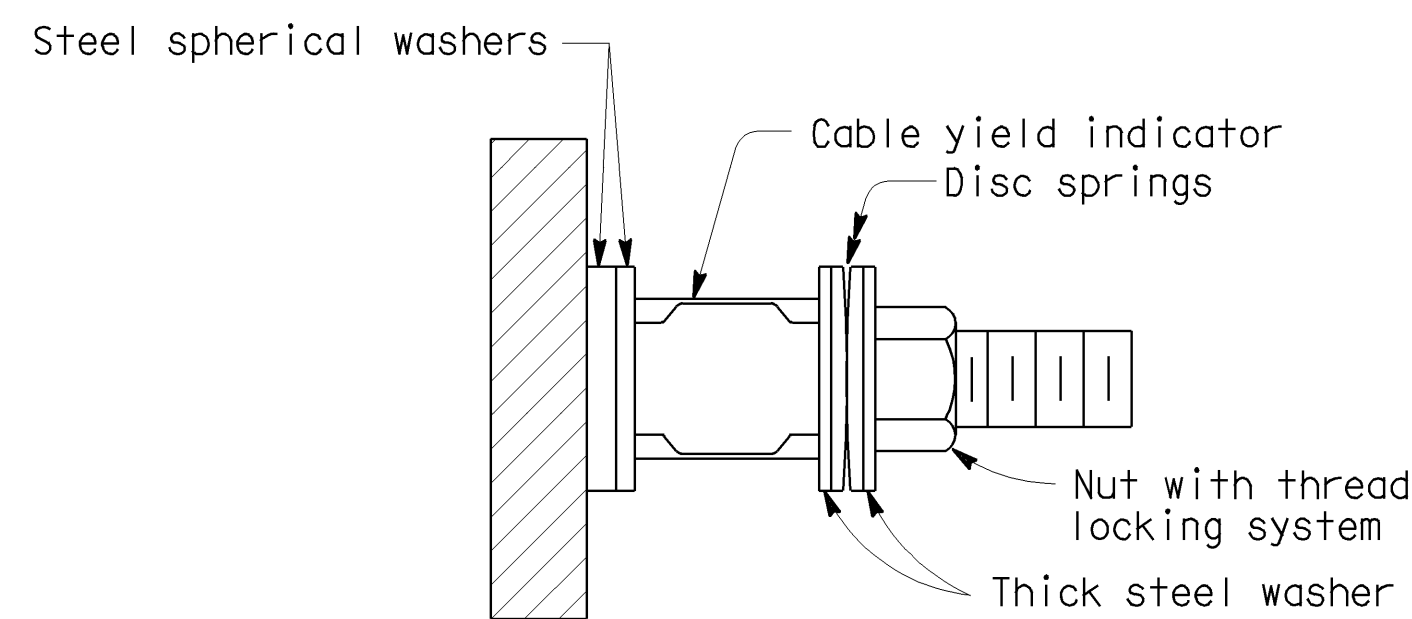
"All dimensions in mm, except as noted"

	DISC SPRING					STEEL SPHERICAL WASHER			THICK WASHER		
L* (m)	ID	OD	t	H	COLOR CODE	ID	OD	Nom thick.	ID	OD	t**
0 - 7.6	25	50	1.6	3.3	WHITE	30	57	13	26	50	6.3
7.7 - 9.7	25	50	2.0	3.4	RED	30	57	13	26	50	6.3
9.8 - 11.5	25	50	2.4	3.6	BLUE	30	57	13	26	50	6.3
11.6 - 13.7	31	63	2.5	4.5	YELLOW	33	64	13	29	57	6.3

*For length L (m), see "Cable Restrainer Unit - Type 2" sheet

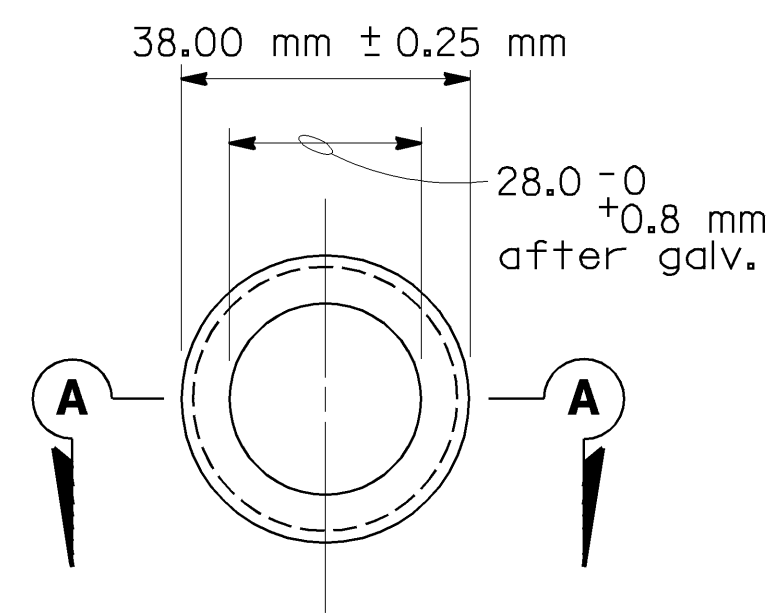
** Minimum value

NOTE: All OD and ID dimensions for washers and disc springs shall meet the dimensional tolerances for harden steel washers, ASTM F436

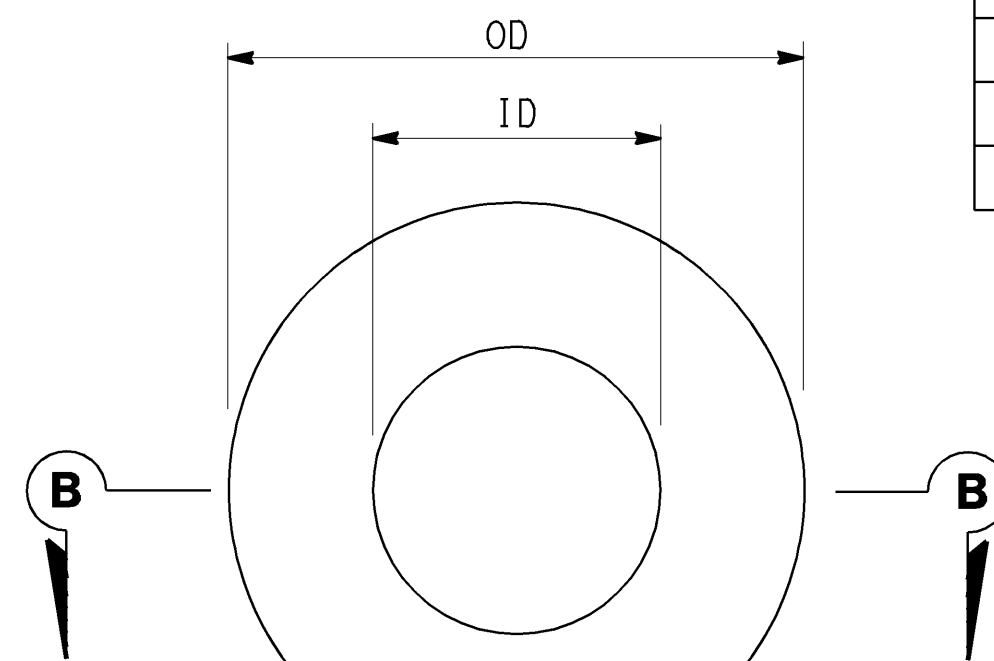


ADJUSTMENT END

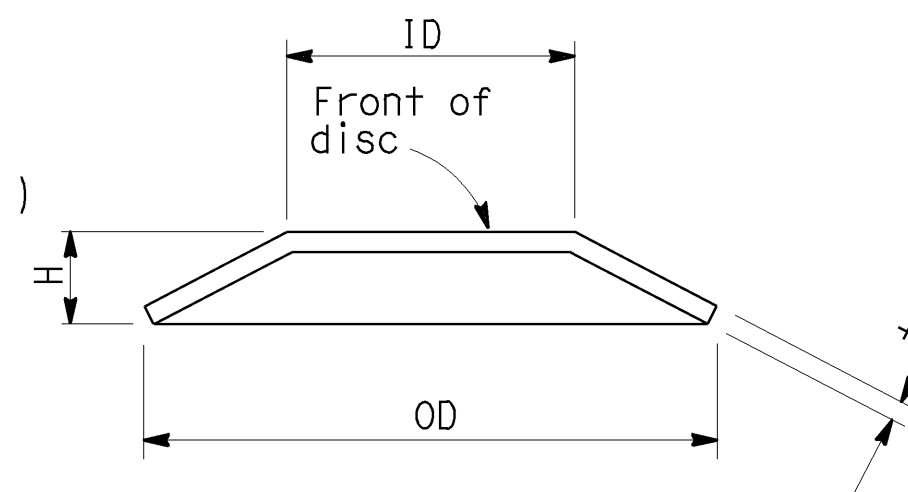
(New construction shown)



END VIEW

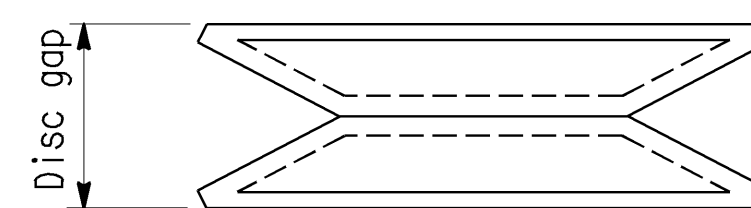


PLAN



SECTION B-B

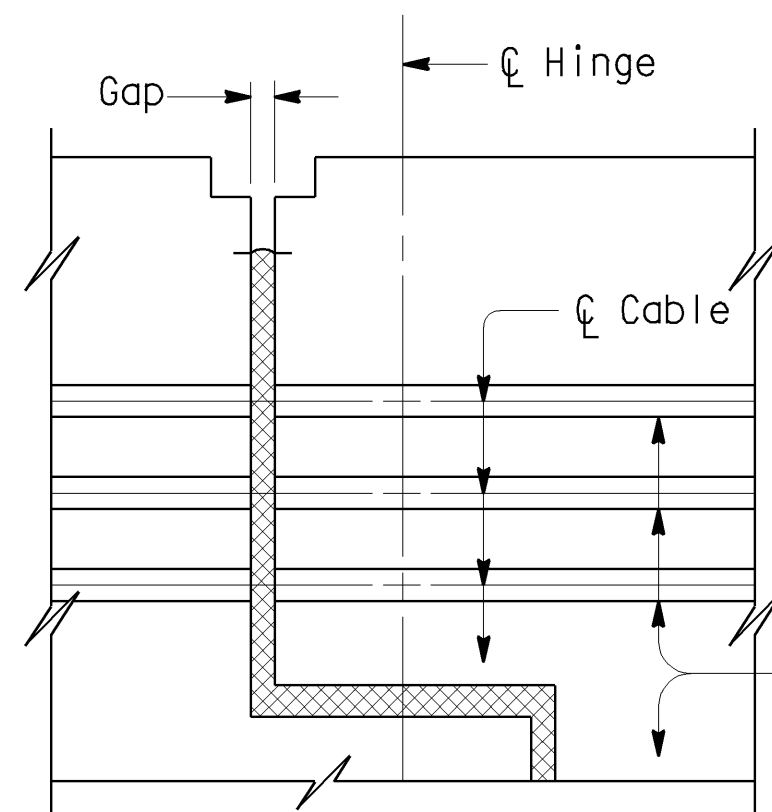
(Single spring)



AS INSTALLED ON STUD

DISC SPRING

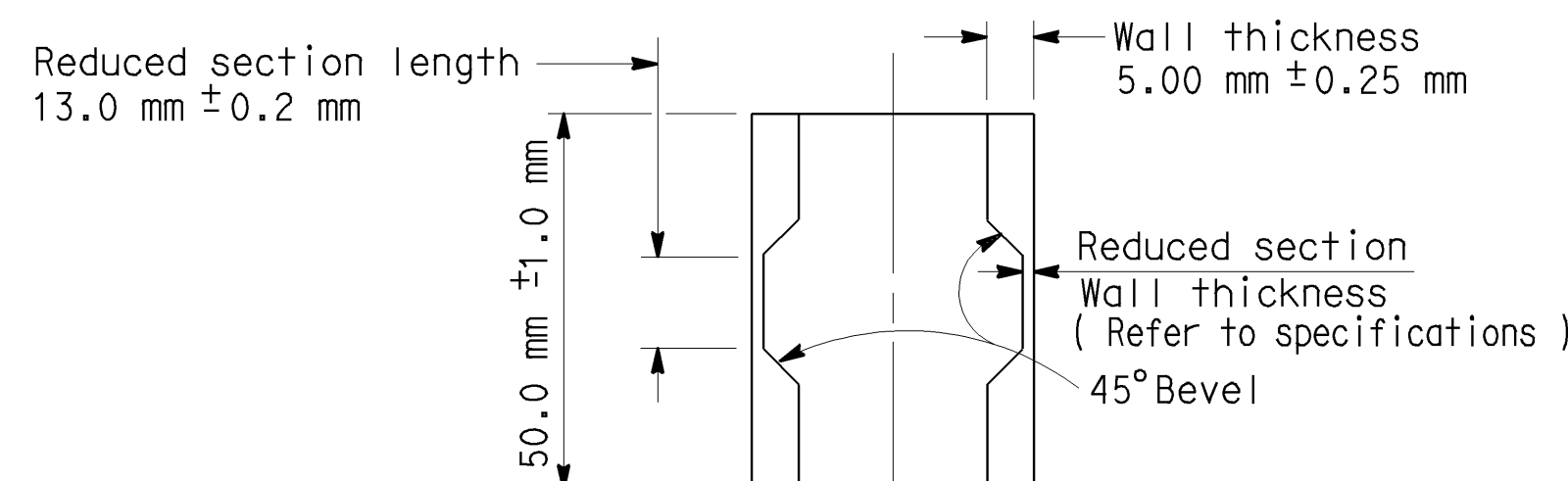
Note: For dimensions not shown, see table



HINGE DETAIL

NOTES:

- A. The ends of pipe shall be covered or capped to prevent concrete and debris from entering the pipe until hinge concrete is placed.
- B. Care should be taken to align the pipes on each side of the hinge.
- C. All ends of pipes must be flush with or slightly recessed from the concrete. The inside edges of the pipes must be smooth to prevent fraying of cables.



SECTION A-A

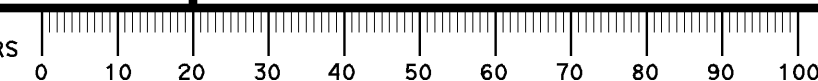
CABLE YIELD INDICATOR

All dimensions are before galvanizing except as noted.

STANDARD DRAWING					
RELEASE DATE	4/20/98	DESIGN	BY S. SAHS	CHECKED R. J. ZELINSKI	RELEASED BY
FILE NO.	xs7-420	DETAILS	BY R. YEE	CHECKED R. J. ZELINSKI	J. Hammond
		SUBMITTED	BY R. J. ZELINSKI	DRAWING DATE, 4/98	

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS
FOR REDUCED PLANS



STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.

KILOMETER POST

CABLE RESTRAINER UNIT - TYPE 2 DETAILS

DISREGARD PRINTS BEARING
EARLIER REVISION DATES -

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET	OF
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USERNAME => jsanchez
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xs7-420.dgn

DATE PLOTTED => 16-JAN-2004 TIME PLOTTED => 15:30